

New from **EMS**:

FAULHABER BX4

Faulhaber have just announced a new addition to the BX4 series of high torque Brushless DC Servomotors. The type 2250 remains only 22mm diameter but the increased length makes this a real power house peaking at 35W continuous operation. The modular construction eliminates complex manufacturing processes and delivers a versatile drive system, *entirely free from all adhesives*. The series is completed with a magnetic encoder; integrated speed controller, planetary gearhead, as well as external drive electronics.

The 4-pole ironless winding together with rare earth magnets result in zero cogging and gives exceptional torque for its size, and the combined moulding of the coil, PCB and hall-effect sensors guarantees a reliable, robust construction. A high torque constant and shallow slope of the speed torque curve ensures consistent delivery of high torques across a wide speed range and the choice of rotors gives rise to further flexibility.

The addition of a 3-channel magnetic encoder within the same outside diameter provides speed and positional feedback in 4-factory programmable resolutions of 32, 64, 128 and 256 pulses per revolution. The option of a line driver with differential signal output ensures a stronger signal and maintains integrity even when using long connecting lead-wires.

The option of an integrated speed controller makes this combination exceptionally user friendly and lends itself in many applications to the direct replacement of conventional DC motors but with the additional benefits that electronically commutated motors have to offer.

Planetary gearhead 22F completes the package and with all metal gears, available in four stages, 21 ratios and delivering 1.5Nm output torque this combination really does represent a dynamic powerful drive solution for a wide range of applications.

For more information on the FAULHABER BX4® range, visit www.faulhaber-bx4.com

The FAULHABER product range is exclusively distributed in the UK and Ireland by Electro Mechanical Systems Ltd, to find out more about the products and services EMS can offer please visit our website at www.ems-limited.co.uk or call one of our sales engineers today on 0118 9817391.

